

# **US Memristors Market Size study, by Application (Non-volatile Memory, Neuromorphic and Biological System, Programmable Logic and Signal Processing) by End-user Industry (Consumer Electronics, IT and Telecom, Automotive, Healthcare, Other End-user Industries) Forecasts 2022-2032**

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## **Abstracts**

US Memristors Market is valued approximately USD 48.6 million in 2023 and is anticipated to grow with a healthy growth rate of more than 51.45% over the forecast period 2024-2032. Memristors are distinctive electronic components operating within circuits with just two terminals, capable of regulating electrical current based on the voltage history they've experienced. Unlike conventional passive elements such as resistors, capacitors, and inductors, memristors possess a remarkable trait—they 'remember' the quantity of charge that has traversed them before, adapting their resistance accordingly. This inherent memory feature enables memristors to retain information from prior occurrences, rendering them highly advantageous for an array of electronics and computing applications. The trend of Memristors Market in US is growing continuous research and development activities. The Universities, research institutions, and companies in the US are actively engaged in R&D efforts to improve memristor technology. This includes exploring new materials, fabrication techniques, and applications which anticipated to support the growth of Memristors Market.

Moreover, memristors offer promising applications in computing technology, particularly in the field of non-volatile memory and neuromorphic computing. Their ability to remember the amount and direction of charge flow makes them suitable for next-generation computing architectures. Also, with the exponential growth of data in various sectors such as cloud computing, artificial intelligence, and IoT (Internet of Things),

there's a growing demand for high-density memory solutions. Memristors have the potential to offer higher storage capacities and faster access times compared to traditional memory technologies. However, the competition from established technologies is expected to hinder the Memristors Market growth during the forecast period 2024-2032.

Major market player included in this report are:

SK Hynix Inc

Micron Technologies Inc

IBM Corporation

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Application

Non-volatile Memory

Neuromorphic and Biological System

Programmable Logic and Signal Processing

By End-user Industry

Consumer Electronics

IT and Telecom

Automotive

Healthcare

Other End-user Industries

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.  
Detailed analysis of geographical landscape with Country level analysis of major regions.  
Competitive landscape with information on major players in the market.  
Analysis of key business strategies and recommendations on future market approach.  
Analysis of competitive structure of the market.  
Demand side and supply side analysis of the market.

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